

CR 134289

CORRELATION OF
MISSIONS 191, 51M AND
HELICOPTER PHOTOGRAPHY

(NASA-CR-134289) CORRELATION OF MISSIONS	N75-12279
191, 51M AND HELICOPTER PHOTOGRAPHY	
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CORRELATION OF
MISSIONS 191, 51M AND
HELICOPTER PHOTOGRAPHY

(TEST SITE 175)

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for

Mapping Sciences Branch
Earth Observation Division

National Aeronautics and Space Administration
Manned Spacecraft Center
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PREFACE

This report was prepared by Lockheed Electronics Company, Inc., Houston Aerospace Systems Division, under Contract NAS 9-12200 in response to Job Order 75-815 issued by the Mapping Sciences Branch, Earth Observation Division, Manned Spacecraft Center, Houston, Texas.

Special acknowledgment is made to Frank J. Herbert of the Applications Office, Earth Observations Division, for providing the helicopter photography.

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION.	1
2.0 REPORT DESCRIPTION.	2
Correlation, Cataloguing and Indexing	3
Index Coverage Map	4
Mission 51M and 191 Photographic Coverage Plots	5
Rosenburg Area.	8
Photographic Correlation Logs.	9
Photographic Coverage Plots.	16
Houston Ship Channel and Trinity Bay Area	21
Photographic Correlation Logs.	22
Photographic Coverage Plots.	29
Sommerville Dam Area.	37
Photographic Correlation Logs.	38
Photographic Coverage Plots.	39

1.0 INTRODUCTION

Mission 191 was flown on November 11, 1971; Mission 51M was flown on 11 and 12 November, 1971, and the helicopter photography was flown on 10 and 11 November, 1971.

The cameras correlated in this report are:

- Mission 191 - RC-8/4L with 6-inch-focal-length lens.
- Mission 51M - K-17 with 6-inch-focal-length lens.
- Helicopter Photography - Hand held Hasselblad with 40 mm-focal-length lens hand held Nikon with 35 mm focal-length lens.

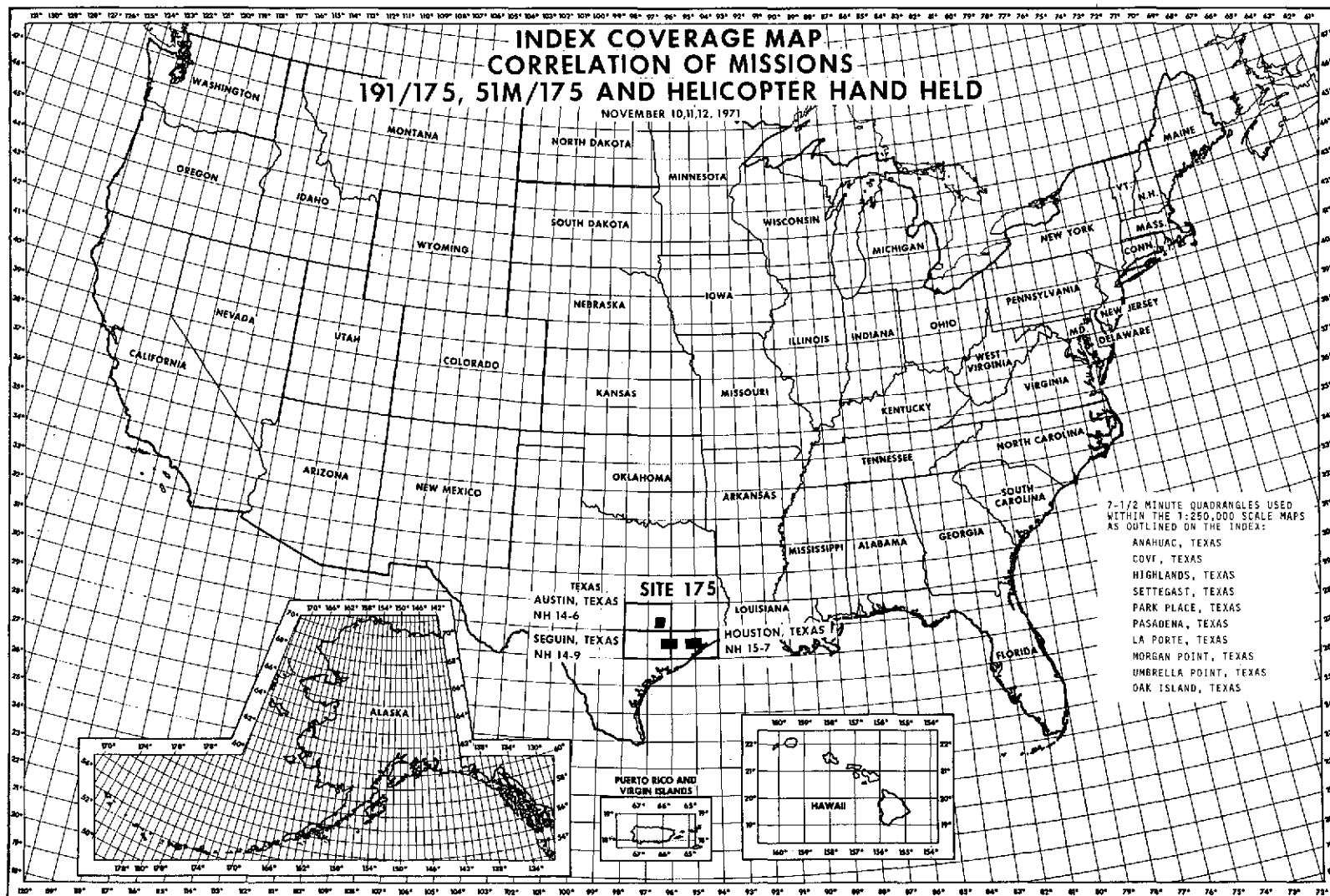
See the Cataloging and Indexing Reports of Missions 191 and 51M for the other sensors operated during the missions.

2.0 REPORT DESCRIPTION

This report is a correlation of Mission 51M photography (K-17) and the Helicopter Mission photography (Hasselblad and Nikon) to Mission 191 photography (RC-8/4L). The correlation is for three areas within Test Site 175. These areas are Rosenberg, Houston Ship Channel/Trinity Bay and the Sommerville Dam.

The report is presented in four sections. The first section is an index of the photography from Missions 191 and 51M that cover the three study areas within Test Site 175. The second section is the correlation of Missions 191 and 51M and the Helicopter mission over the Rosenberg area. Section number three is the correlation of the photography over the Houston Ship Channel/Trinity Bay area. The fourth section is the Sommerville Dam correlation.

CORRELATION, CATALOGUING
AND
INDEXING



ROSENBERG

AREA

Lines 1 & 4 (51M)

ROSENBERG - RANGELAND AND RELATED GRAZING LAND
CORRELATION LOG

Date: November 10, 11, 12, 1971

Mx191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 70mm Hass Roll/Exp.	Helicopter 35mm Nikon Roll/Exp.						
10/0128	1/11114/001	-	-						
10/0128	1/11114/002	-	-						
10/0128	1/11114/003	-	-						
10/0128	1/11114/004	-	-						
10/0128	1/11114/005	-	-						
10/0128	1/11114/006	H1/30	NI/10						
10/0128	1/11114/006	H1/42	-						
10/0128	1/11114/006	H1/43	NI/18						
10/0128	1/11114/006	H2/35	N4/19						
10/0128	1/11114/008	H1/31	NI/11						
10/0128	1/11114/008	H1/32	NI/12						
10/0128	1/11114/008	H1/36	NI/11						
10/0128	1/11114/008	H2/33	N4/17						
10/0128	1/11114/008	H2/34	-						
10/0128	1/11114/009	-	-						
10/0128	1/11114/010	H1/33	NI/13						
10/0128	1/1114/010	H1/32	NI/15						
10/0128	1/1114/010	H1/35	NI/15						
10/0128	1/1114/010	H1/38							
10/0128	1/1114/010	H1/39	NI/16						
10/0128	1/1114/010	H2/31	N4/15						
10/0128	1/1114/010	H2/32							
10/0128	1/11114/010	H2/41	N5/5						

ROSENBERG AREA

Mx 191/175 RC-8/4L Roll/Exp.	Mx 51M/175 K 17 Roll/Exp.	Helicopter 70 mm Hass. Roll/Exp.	Helicopter 35 mm Nikon Roll/Exp.						
10/0128	1/11114/010	H2/42	N5/6						
10/0128	1/11114/010	-	N1/14*						
10/0128	1/11114/012	-	N5/7*						
10/0128	1/11114/012	-	N5/8*						
10/0128	1/11114/012	-	N5/9*						
10/0128	1/11114/013	H1/40	-						
10/0128	1/11114/013	H1/41	-						
10/0128	1/11114/013	H1/48	-						
10/0128	1/11114/013	H1/49	-						
10/0128	1/11114/013	H1/52	-						
10/0128	1/11114/014	H2/48	N5/12						
10/0128	1/11114/014	H2/51	N5/13						
10/0128	1/11114/014	-	N5/15						
10/0128	1/11114/014	H2/52	N5/16						
10/0128	1/11114/014	H2/52	N5/17						
10/0128	1/11114/014	-	N5/10						
10/0128	1/11114/014	-	N5/11						
10/0128	1/11114/014	-	N5/18						
10/0128	1/11114/015	-	-						
10/0128	1/11114/016	-	N5/15*						
10/0128	1/11114/076	H1/20	N2/21						
10/0128	1/11114/076	H1/21	-						
10/0128	1/11114/076	H1/26	N1/5						
10/0128	1/11114/076	-	N1/6*						
10/0128	1/11114/076	H1/27	N1/5						

MSC FORM 376 (R) 10-651 *Nikon frames have no corresponding
Hass. frames

DATA SHEET

NASA — MSC

ROSENBERG AREA

Mx191/175 RC-8/4L Roll/Exp.	Mx51M/175 K-17 Roll/Exp.	Helicopter 70 mm Hass Roll/Exp.	Helicopter 35 mm Nikon Roll/Exp.						
10/0128	1/11114/076	H1/27	N1/6						
10/0128	1/11114/076	H1/28	N1/1						
10/0128	1/11114/076	H1/28	N1/2						
10/0128	1/11114/076	H1/29	N2/22						
10/0128	1/11114/076	-	N2/23						
10/0128	1/11114/076	H2/15	N3/17						
10/0128	1/11114/076	H2/16	N3/18						
10/0128	1/11114/076	H2/17	N4/2						
10/0128	1/11114/076	H2/18	N4/2						
10/0128	1/11114/076	H2/18	N4/3						
10/0128	1/11114/076	H2/18	N4/4						
10/0128	1/11114/076	H2/18	N4/5						
10/0128	1/11114/076	H2/18	N4/6						
10/0128	1/11114/078	H1/12	N2/13						
10/0128	1/11114/078	H1/12	N2/20						
10/0128	1/11114/078	H1/13	N2/18						
10/0128	1/11114/078	H1/13	N2/19						
10/0128	1/11114/078	H1/14	N2/18						
10/0128	1/11114/078	H1/14	N2/19						
10/0128	1/11114/078	H1/15	N2/16						
10/0128	1/11114/078	H1/15	N2/17						
10/0128	1/11114/078	H1/16	N2/19						
10/0128	1/11114/078	H1/17	N2/19						
10/0128	1/11114/078	H1/18	N2/19						
10/0128	1/11114/078	H1/19	N2/20						

ROSENBERG AREA

191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 70 MM/Hass Roll/Exp.	Helicopter 35 MM Nikon Roll/Exp.						
10/0128	1/11114/078	H1/22							
10/0128	1/11114/078	H1/24	N1/1						
10/0128	1/11114/078	H1/25	N1/1						
10/0128	1/11114/078	H1/28	N1/2						
10/0128	1/11114/078	H2/13	N3/16						
10/0128	1/11114/078	H2/13	N4/11						
10/0128	1/11114/078	H2/14	N3/16						
10/0128	1/11114/078	H2/14	N4/11						
10/0128	1/11114/078	H2/23	-						
10/0128	1/11114/078	H2/24	N4/8						
10/0128	1/11114/078	H2/25	N4/8						
10/0128	1/11114/078	H2/27	N3/16						
10/0128	1/11114/078	H2/27	N4/11						
10/0128	1/11114/078	H2/28	N3/16						
10/0128	1/11114/078	H2/28	N4/11						
10/0128	1/11114/078	-	N2/14						
10/0128	1/11114/078	-	N2/15						
10/0128	1/11114/078	-	N3/15						
10/0128	1/11114/078	-	N4/7						
10/0128	1/11114/078	-	N4/9						
10/0128	1/11114/078	-	N4/10						
10/0128	1/11114/078	-	N4/12						
10/0128	1/11114/078	-	N4/13						
10/0128	1/11114/080	H1/4	N2/2						
-	-	-	N2/3	*					

ROSENBERG AREA

191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 70 mm Hass Roll/Exp.	Helicopter 35 mm Nikon Roll/Exp.						
10/0128	1/11114/080	H1/2	-						
10/0128	1/11114/080	H1/3	N2/5						
10/0128	1/11114/080	H1/4	N2/5						
10/0128	1/11114/080	H1/6	-						
10/0128	1/11114/080	H1/7	-						
10/0128	1/11114/080	H1/8	N2/6						
10/0128	1/11114/080	H1/8	N2/7						
10/0128	1/11114/080	H1/8	N2/8						
10/0128	1/11114/080	H1/10	N2/11						
10/0128	1/11114/080	H2/1	N3/2						
10/0128	1/11114/080	H2/2	N3/3						
10/0128	1/11114/080	H2/3	-						
10/0128	1/11114/080	H2/4	N3/6						
10/0128	1/11114/080	H2/58	-						
10/0128	1/11114/080	-	N2/4						
10/0128	1/11114/080	-	N3/4						
10/0128	1/11114/080	-	N3/5						
10/0128	1/11114/080	-	N4/14						
10/0128	1/11114/080	-	N5/22						
10/0128	1/11114/082	H2/5	-						
10/0128	1/11114/082	H2/6	-						
10/0128	1/11114/082	H2/8	N3/10						
10/0128	1/11114/082	H2/8	N3/11						
10/0128	1/11114/082	H2/9	N3/10						
10/0128	1/11114/082	H2/9	N3/11						

ROSENBERG AREA

191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 70 MM Hass Roll/Exp.	Helicopter 35 MM Nikon Roll/Exp.						
10/0128	1/11114/082	H1/5	N2/9						
10/0128	1/11114/082	-	N3/7						
10/0128	1/11114/082	-	N3/8						
10/0128	1/11114/082	-	N3/9						
10/0128	1/11114/082	-	N3/12						
10/0128	1/11114/082	-	N3/13						
10/0128	1/11114/082	-	-						
10/0128	1/11114/082	-	-						
10/0128	1/11114/082	H1/9	N2/6						
10/0128	1/11114/082	H1/11	N2/12						
10/0128	1/11114/082	H2/11	N3/13						
10/0128	1/11114/082	H2/12	N3/14						
10/0128	1/11114/082	H2/29	-						
10/0128	1/11114/082	H2/30	-						
10/0128	1/11114/082	H2/36	N4/20						
10/0128	1/11114/082	H2/37	N4/21						
10/0128	1/11114/082	H2/38	-						
10/0128	1/11114/082	H2/39	-						
10/0128	1/11114/082	H2/40	N4/4						
10/0128	1/11114/082	-	N1/7						
10/0128	1/11114/082	-	N1/8						
10/0128	1/11114/082	-	N1/9						
10/0128	1/11114/082	-	N1/17						
10/0128	1/11114/082	-	N1/19						
10/0128	1/11114/082	-	N1/20						

ROSENBERG AREA

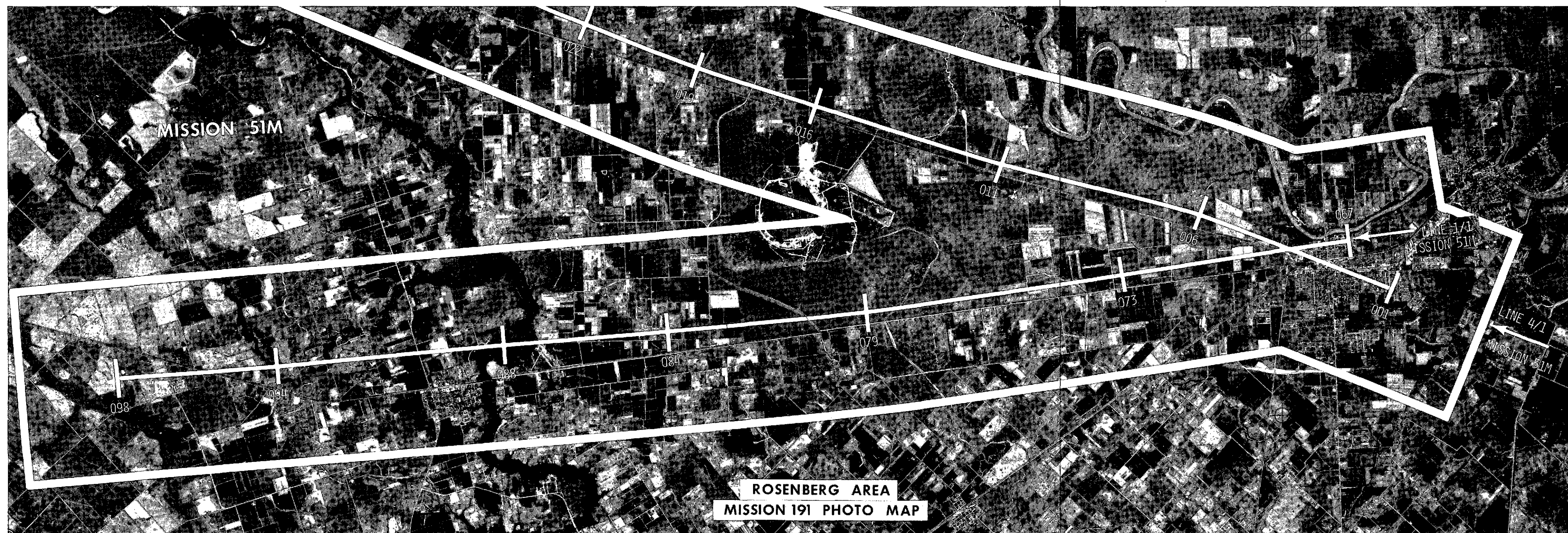
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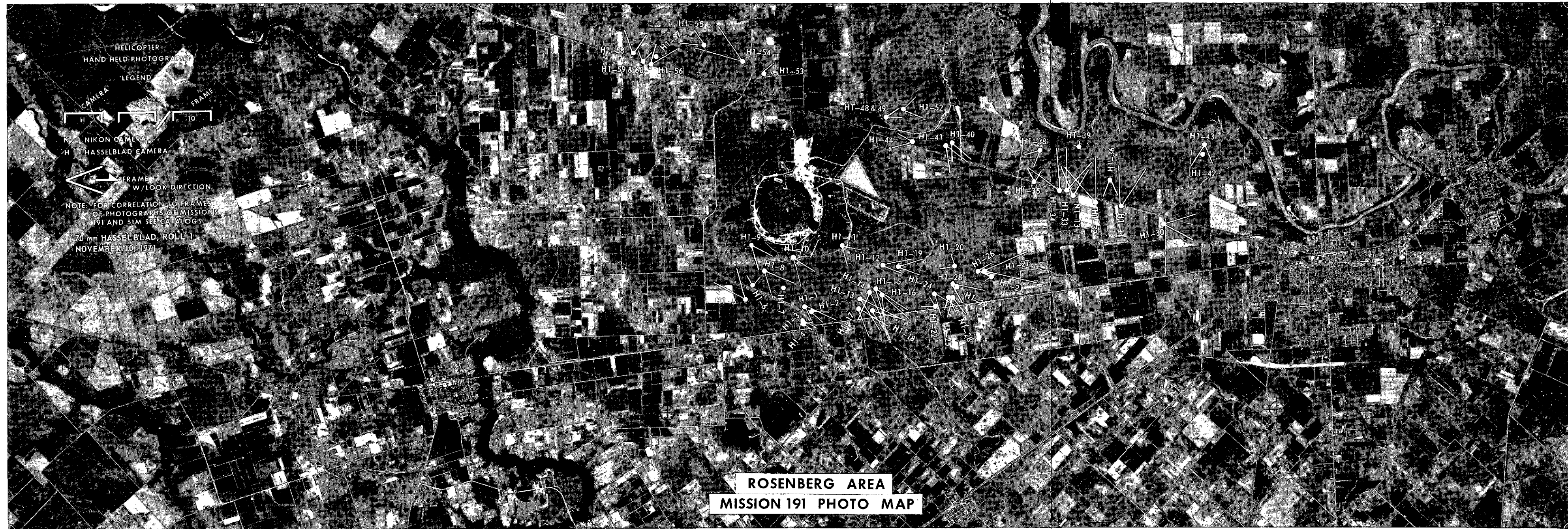
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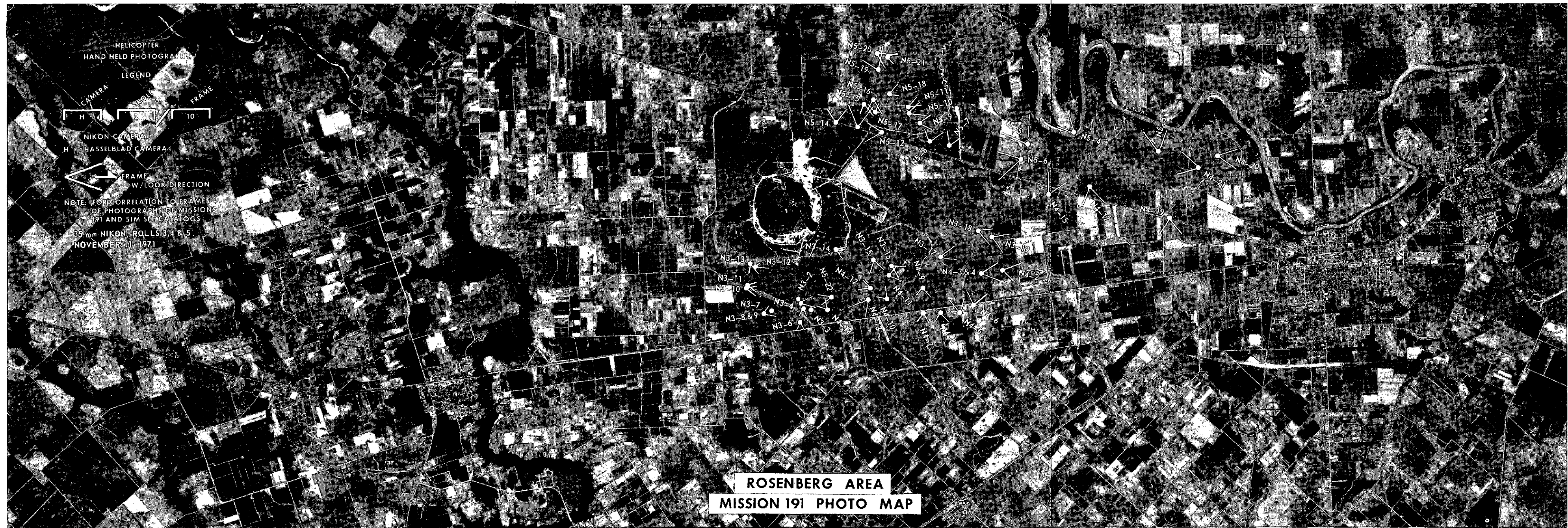
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HOUSTON SHIP CHANNEL
AND TRINITY BAY
AREA
Lines 7 & 8 (51M)

HOUSTON SHIP CHANNEL AND
TRINITY BAY CORRELATION LOG

Date: November 10, 11, 12, 1971

191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp	Helicopter 35 mm Nikon Roll/Exp							
10/0064	-	N9/5							
10/0064	-	N9/6							
10/0064	-	N9/7							
10/0064	-	N9/8							
10/0064	-	N9/9							
10/0064	-	N9/10							
10/0064	-	N9/11							
10/0064	-	N9/13							
10/0064	-	N9/15							
10/0064	-	N11/9							
10/0064	-	N11/10							
10/0064	-	N11/11							
10/0064	-	N11/12							
10/0064	-	N11/13							
10/0064	-	N11/14							
10/0064	-	N11/15							
10/0064	-	N11/16							
10/0064	-	N11/17							
10/0064	-	N11/18							
10/0064	-	N11/20							
10/0064	-	N11/21							
10/0065	-	N6/14							
10/0065	-	N6/15							
10/0065	-	N6/16							
10/0065	-	N6/17							

22

HOUSTON SHIP CHANNEL AND
TRINITY BAY CORRELATION LOG

Date: November 10, 11, 12, 1971

191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 35 mm Nikon Roll/Exp.							
10/0065	-	N6/18							
10/0065	-	N9/12							
10/0065	-	N9/17							
10/0066	-	-							
10/0067	-	N6/2							
10/0068	-	N7/17							
10/0069	-	N7/18							
10/0101	1/11124/110	-							
10/0101	-	N7/15							
10/0102	1/11124/094	N7/1							
10/0102	1/11124/095	N7/2							
10/0102	2/11124/095	N7/3							
10/0102	2/11124/095	N7/4							
10/0102	2/11124/098	N7/5							
10/0102	2/11124/098	N7/6							
10/0102	2/11124/098	N7/7							
10/0102	2/11124/099	-							
10/0102	2/11124/100	-							
10/0102	2/11124/101	-							
10/0102	2/11124/102	N7/8							
10/0102	2/11124/102	N7/9							
10/0102	2/11124/102	N7/10							
10/0102	2/11124/103	N8/11							
10/0102	2/11124/104	-							
10/0102	2/11124/105	-							

HOUSTON SHIP CHANNEL AND
TRINITY BAY CORRELATION LOG

Date: November 10, 11, 12, 1971

191/175 RC- 8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 35mm Nikon Roll/Exp.							
10/0103	2/11124/106	-							
10/0103	2/11124/107	N7/13							
10/0103	2/11124/107	N7/14							
10/0103	2/11124/108	-							
10/0103	2/11124/083	-							
10/0103	2/11124/084	-							
10/0103	2/11124/085	-							
10/0103	-	N6/3							
10/0103	-	N6/4							
10/0104	-	N6/5							
10/0104	-	N6/6							
10/0105	-	N6/9							
10/0105	-	N6/10							
10/0105	-	N6/11							
10/0105	-	N6/12							
10/0105	-	N6/13							
10/0106	-	N8/4							
10/0106	-	N8/5							
10/0106	-	N8/6							
10/0106	-	N8/7							
10/0106	-	N8/8							
10/0106	-	N8/9							
10/0106	-	N8/10							
10/0106	-	N8/11							
10/0106	-	N8/12							

HOUSTON SHIP CHANNEL AND
TRINITY BAY CORRELATION LOG

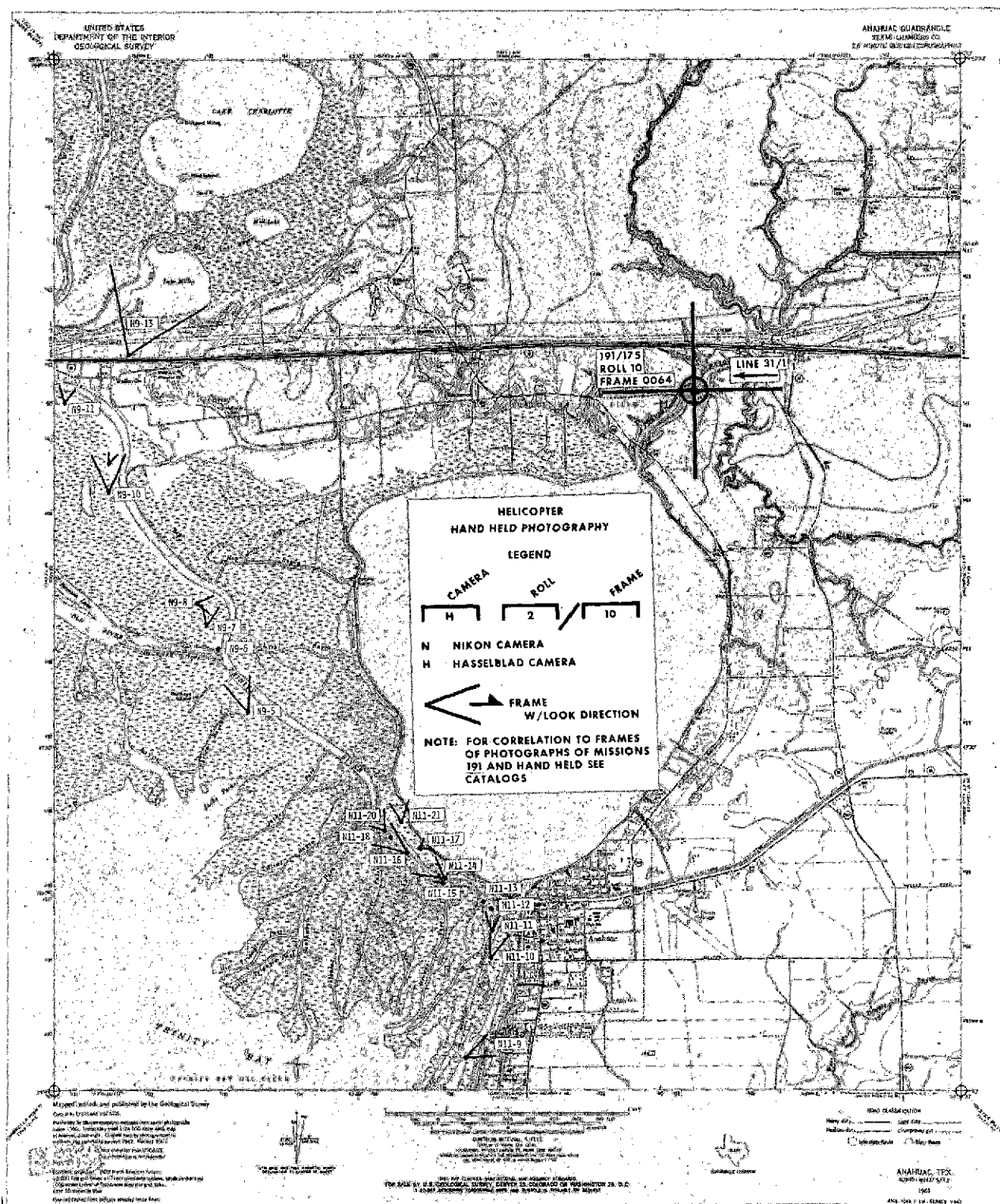
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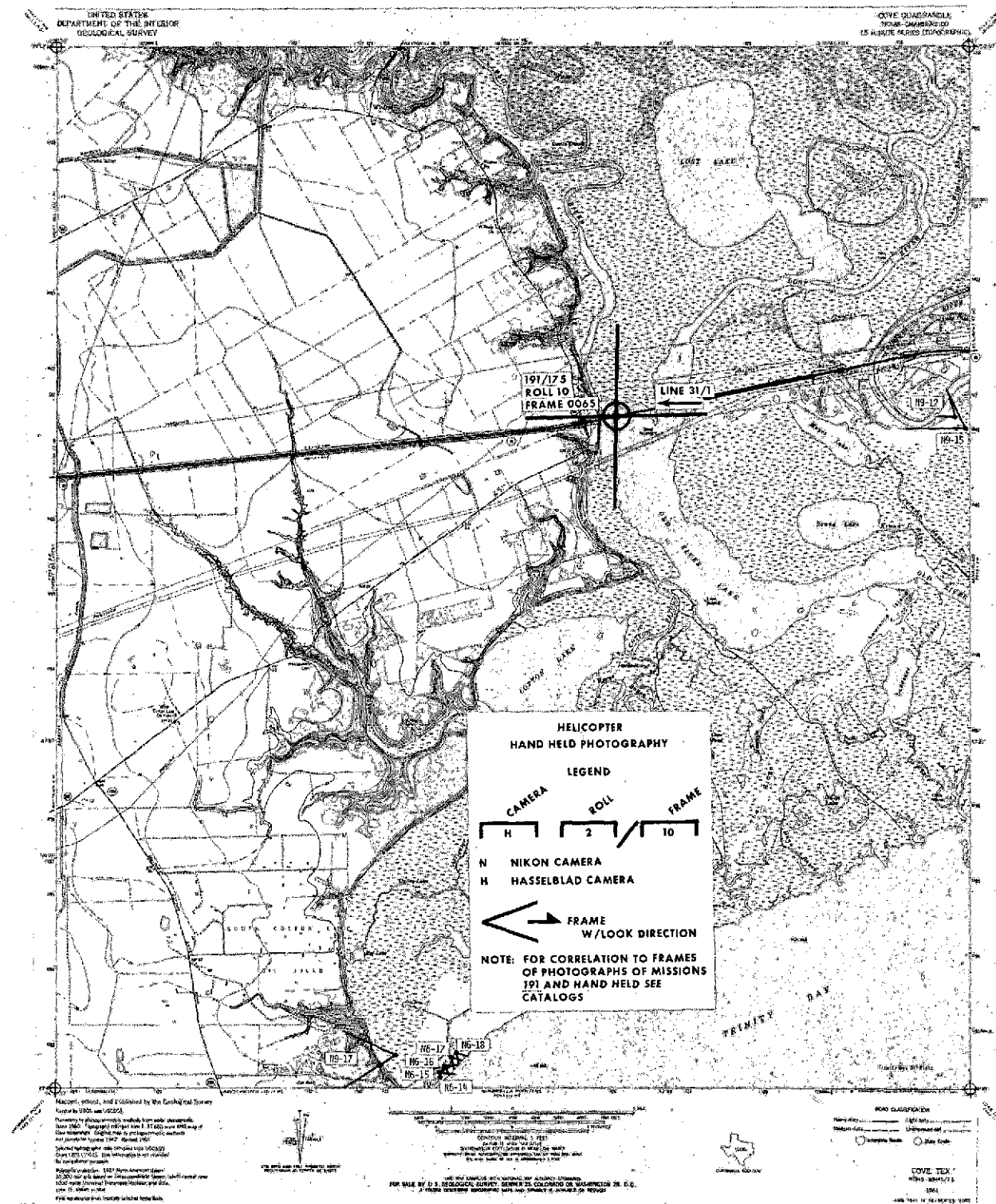
191/175 RC-8/4L Roll/Exp.	51M/175 K-17 Roll/Exp.	Helicopter 35 mm Nikon Roll/Exp.							
10/0106	-	N8/13							
10/0106	-	N8/14							
10/0106	-	N8/15							
10/0106	-	N8/16							
10/0106	-	N8/17							
10/0106	-	N8/18							
10/0106	-	N8/19							
10/0106	-	N8/20							
10/0106	-	N11/6							
10/0106	-	N11/7							
10/0106	-	N11/8							
-	-	N6/1*							
-	-	N6/7*							
-	-	N6/8*							
-	-	N6/14*							
-	-	N6/15*							
-	-	N6/16*							
-	-	N6/17*							
-	-	N6/18*							
-	-	N6/19*							
-	-	N6/20*							
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-	-	N7/11*							
-	-	N7/12*							
-	-	N7/16*							

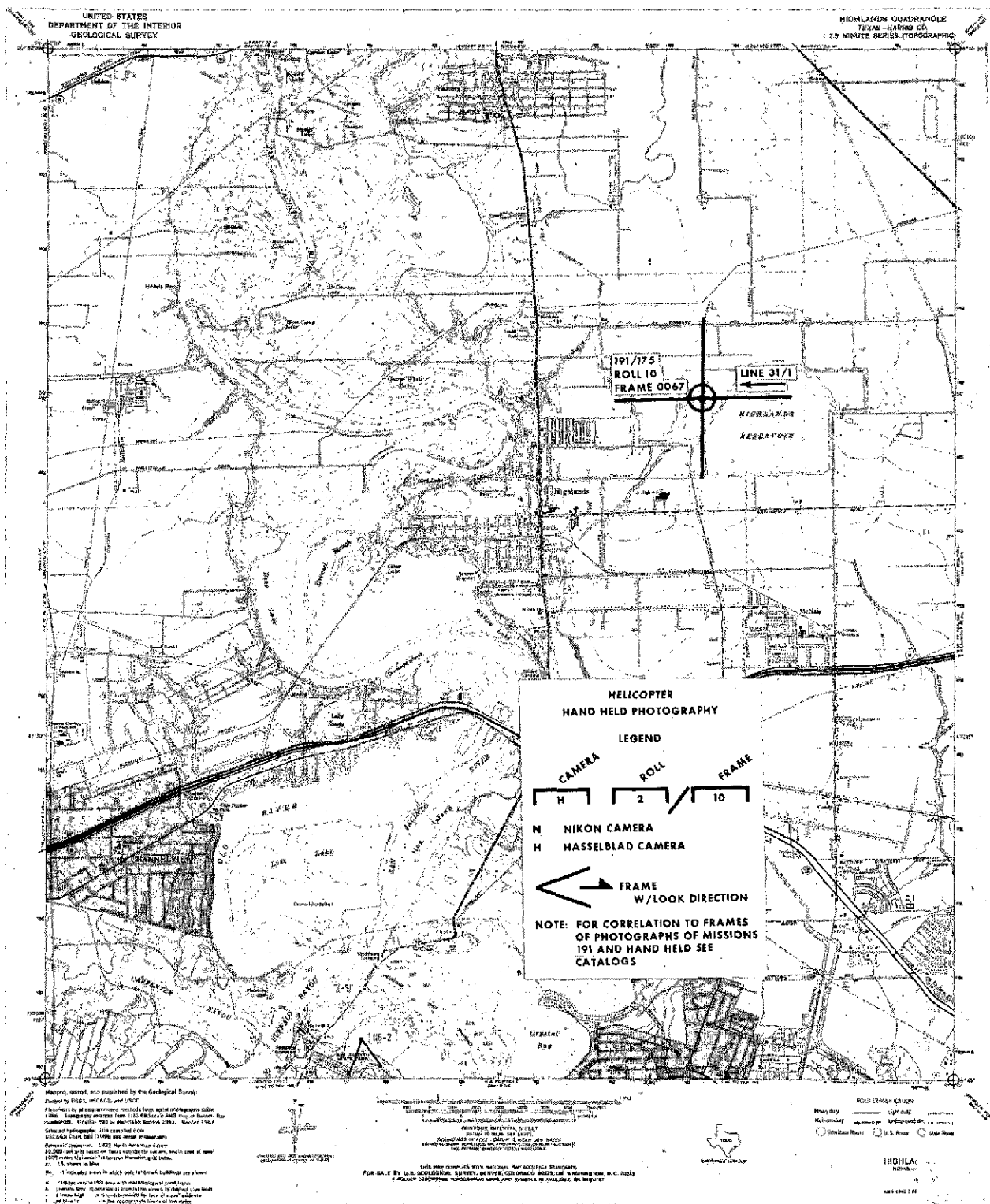
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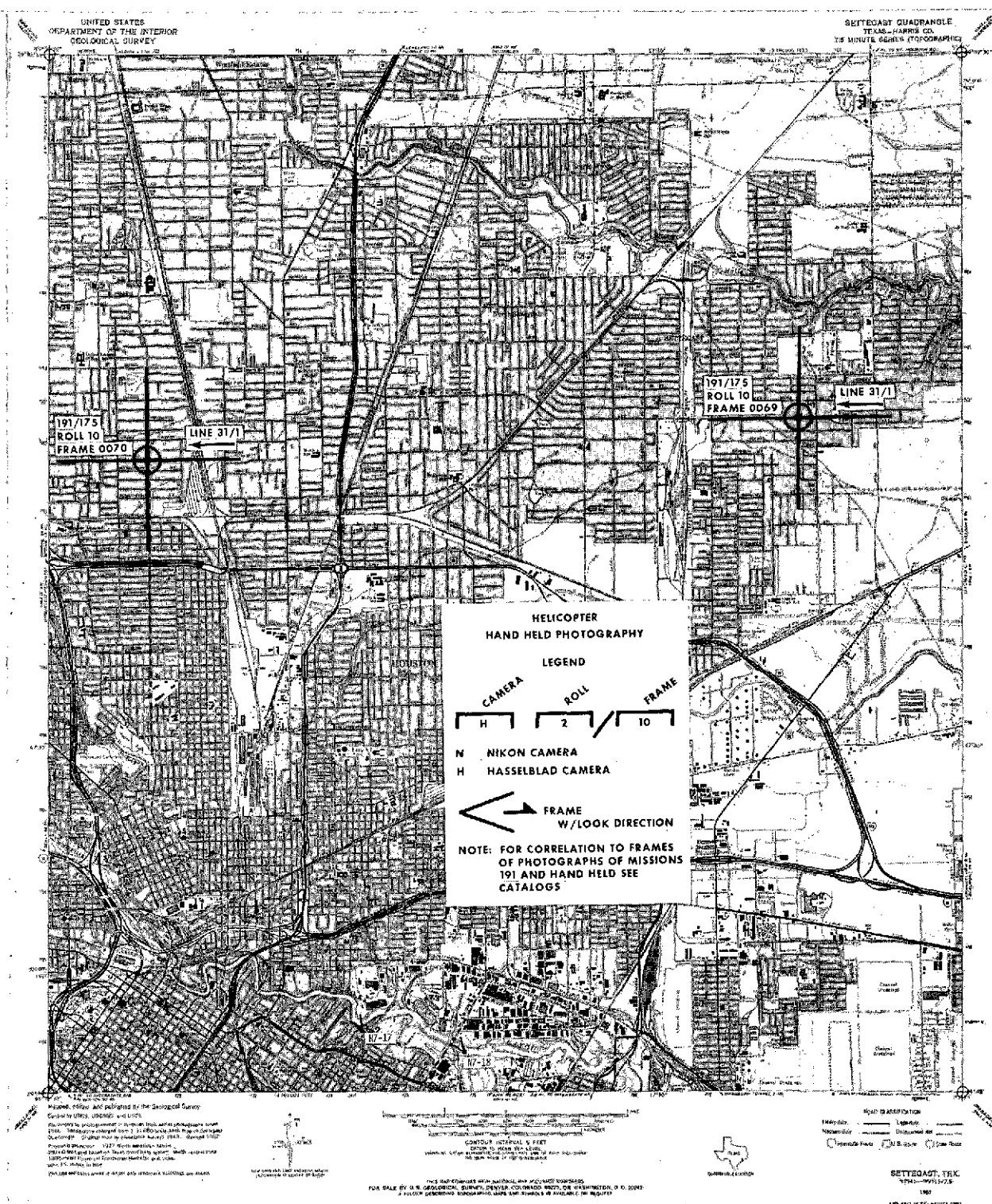
HOUSTON SHIP CHANNEL
TRINITY BAY CORRELATION LOG

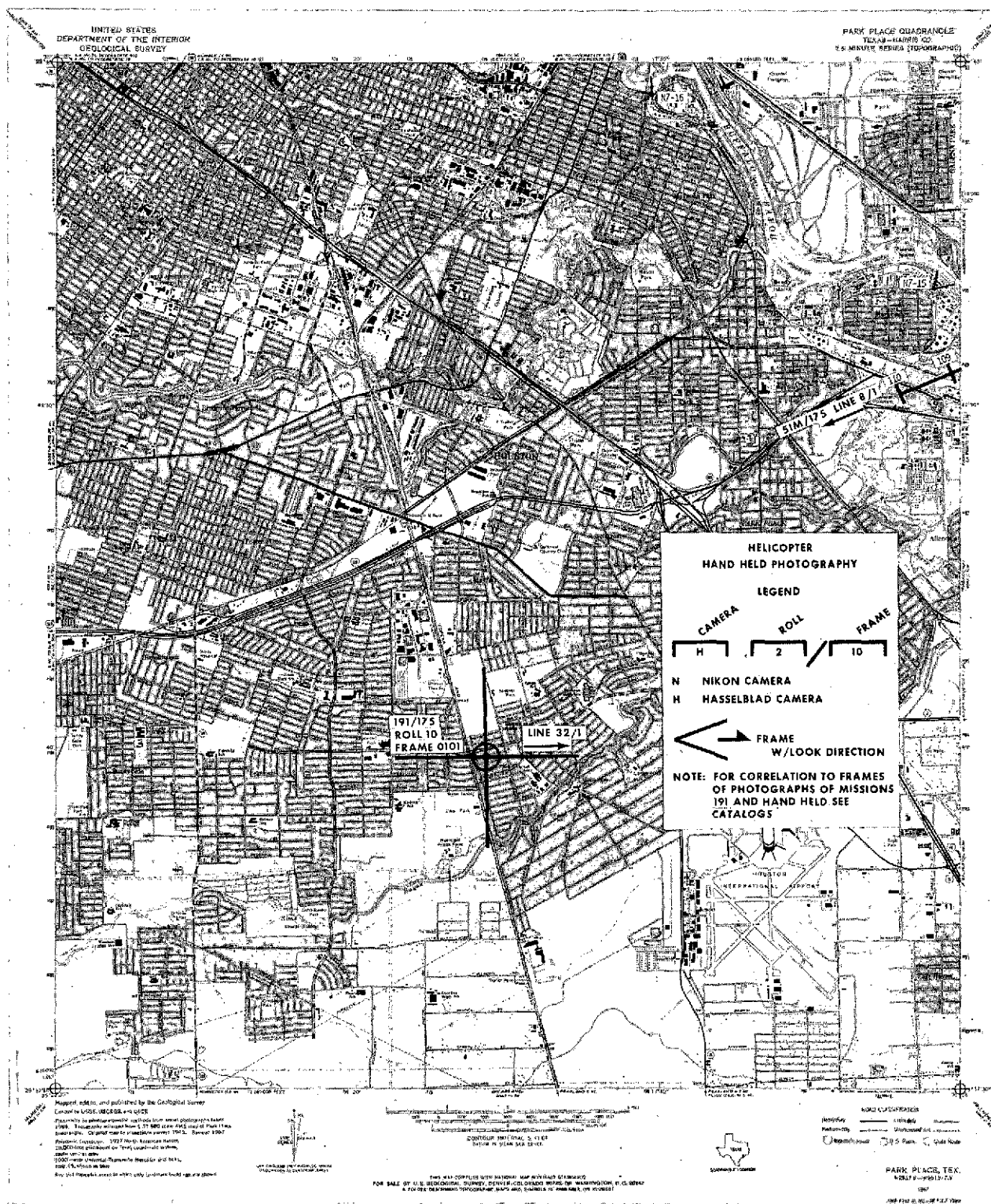
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-	-	N8/1*							
-	-	N8/2*							
-	-	N8/3*							
-	-	N8/4*							
-	-	N8/5*							
-	-	N8/6*							
-	-	N8/7*							
-	-	N8/8*							
-	-	N8/9*							
-	-	N9/1*							
-	-	-							
-	-	N9/2*							
-	-	N9/3*							
-	-	N9/4*							
-	-	N9/14*							
-	-	N9/16*							
-	-	N11/1*							
-	-	N11/2*							
-	-	N11/3*							
-	-	N11/4*							
-	-	N11/5*							
-	-	N11/19*							

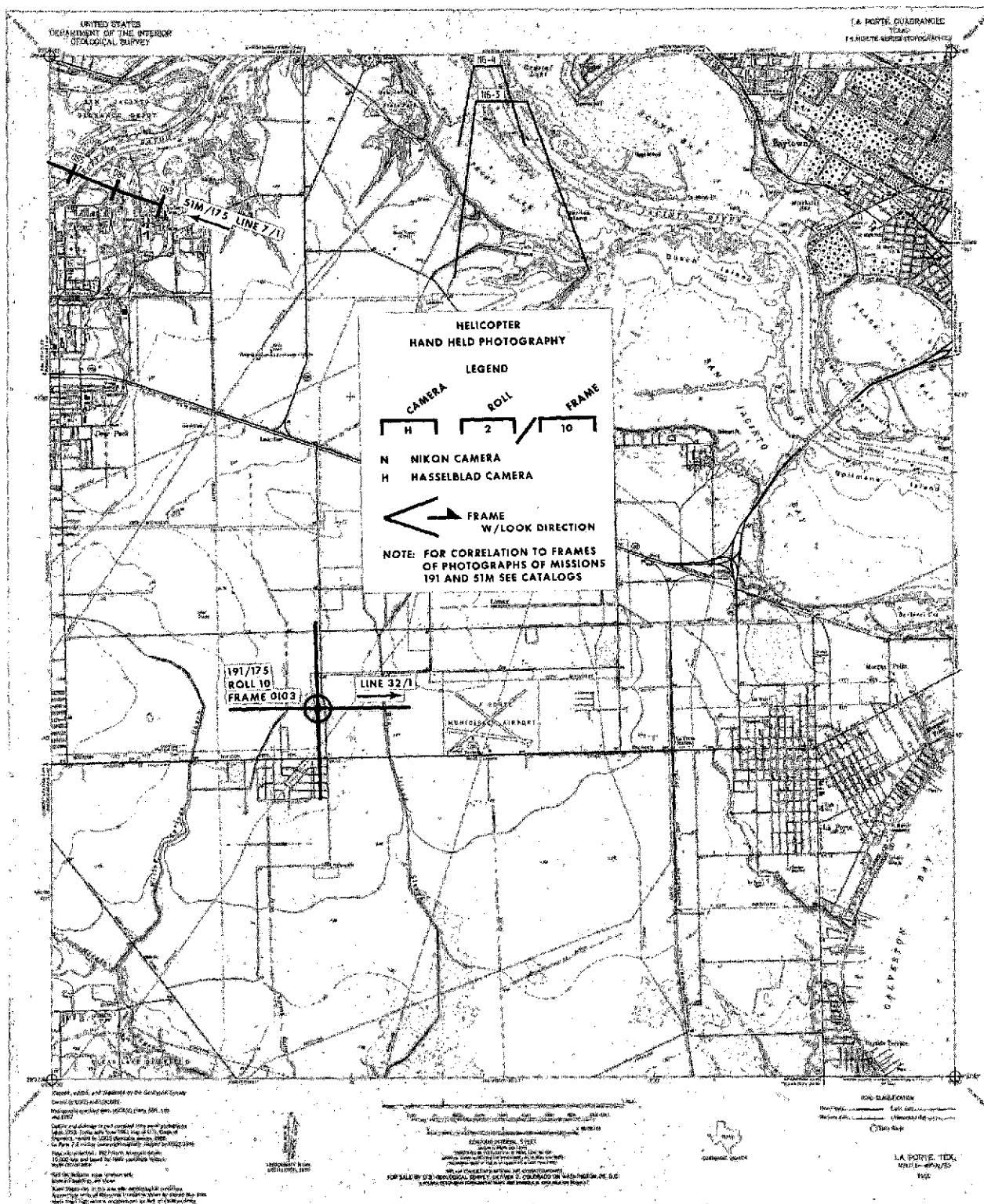


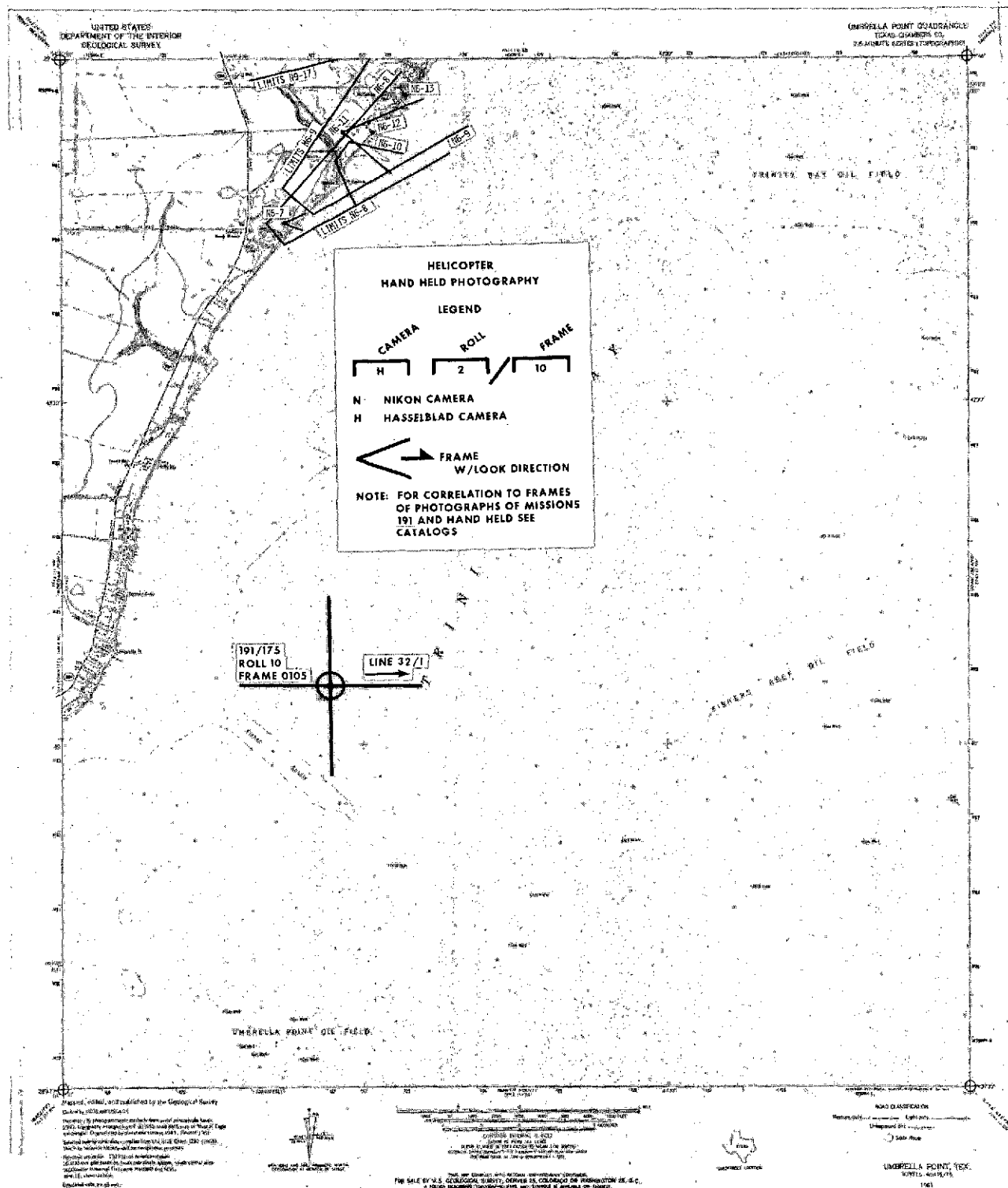


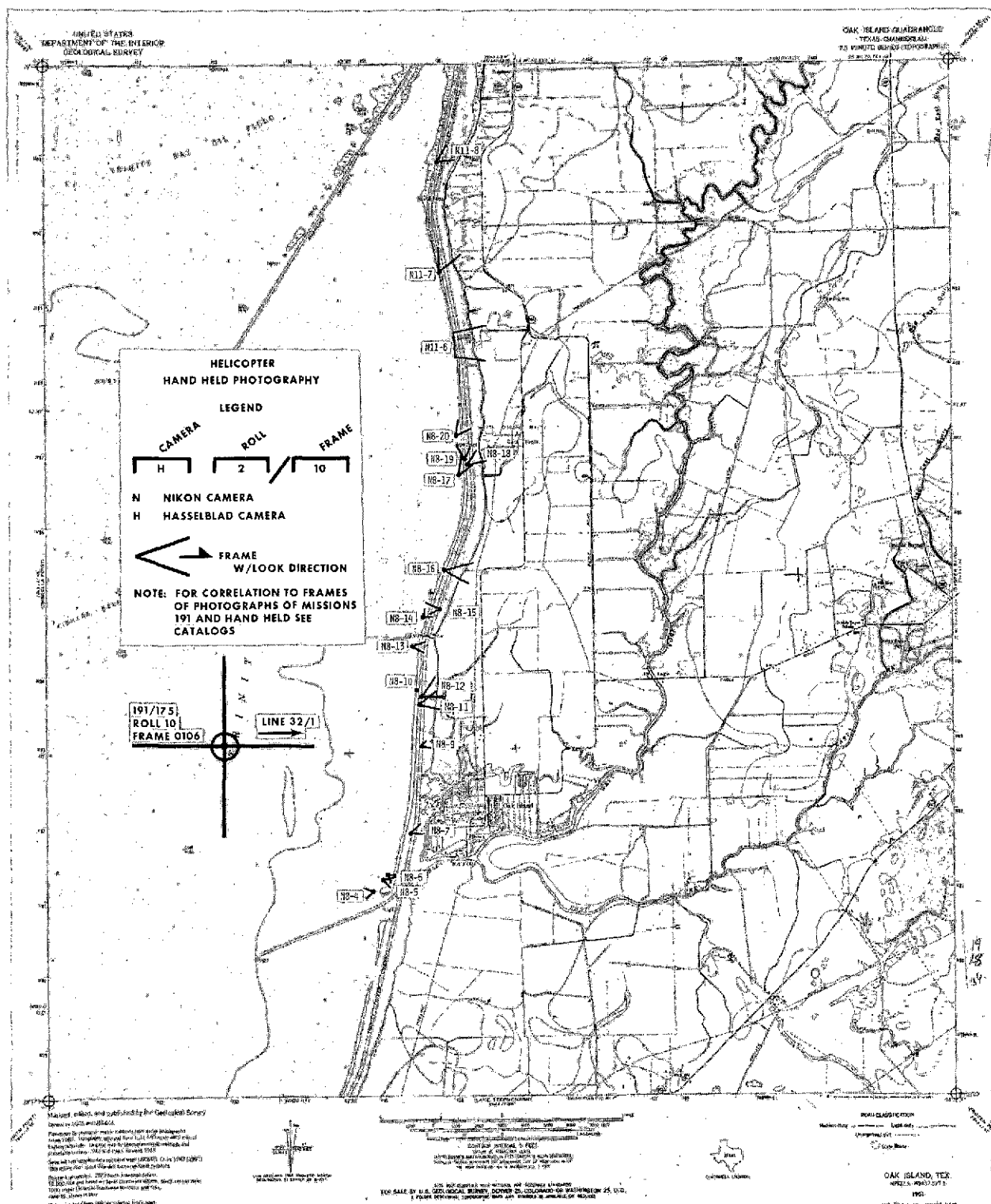












SOMMERVILLE DAM

AREA

Line 11 (51M)

SOMMERVILLE DAM CORRELATION LOG

Date: November 10, 11, 12, 1971

Page 1 of 1

[illegible]

